PIONEER®
The future of sound and vision.

Operating Instructions
Mode d'emploi
Bedienungsanleitung
Istruzioni per l'uso
Manual de instrucciones

CJ-V50A

COMPACT DISC JUKEBOX
JUKE-BOX DE DISQUES COMPACTS
COMPACT DISC JUKEBOX
JUKEBOX PER CD
REPRODUCTOR DE DISCO COMPACTO A MONEDAS

LASER JUKE

COMPACT disc DIGITAL AUDIO

English

Français

Deutsch

Italiano

Español

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING!	ADVARSEL!	VAROITUS!
Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.	Lithiumbatteri. Eksplosionsfare. Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.	Litiumparistot. Räjähdysvaara. Vaihdon saa suorittaa ainoastaan asiantunteva huoltoteknikko noudattamalla huolto-ohjeessa annettuja ohjeita.

IMPORTANT

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appear as indicated:

Location:

On the rear panel of the main unit

IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last, make sure that the power switch is off.

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

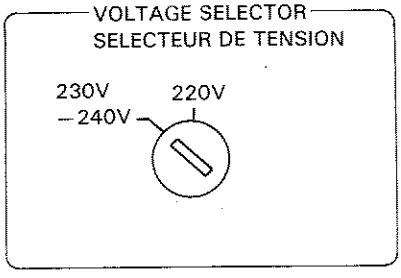
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Neither wire is to be connected to the earth terminal of a three pin plug.
Equipment sold in the U.K. is not supplied with a power plug.

LINE VOLTAGE SELECTOR SWITCH

A 2-point (220 V/230—240 V) voltage selector switch is located on the front panel of the amplifier section.
Check that it is set properly before plugging the mains lead into an AC outlet. If the voltage is not properly set or if you move to an area where the voltage supply differs, adjust the selector switch as follows:

1. Disconnect the mains lead.
2. Use a medium-size (flat blade) screwdriver. Insert the tip of the screwdriver into the groove of the selector switch and turn it to set the compact disc autochanger to the proper line voltage of your area.



Point arrow to power voltage of your area (Figure shows arrow pointing to 230—240 volts.)

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

Thank you for buying this PIONEER product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference. In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

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CAUTIONS ON INSTALLATION

Select a horizontal and stable place. Avoid the following:

① Exposed to direct sunlight.
② Installation near a toilet or kitchen.
③ Exposed to a spotlight.
④ Installation near a refrigerator, dimmer, air-conditioning equipment or other large electrical appliances.
⑤ Installation near neon signs.
⑥ Installation on a non-horizontal place with a weak floor.
Where the floor is not horizontal, insert a hard plate or something similar beneath the casters.
⑦ Installation in a place where it is difficult to carry out coin collection, servicing or maintenance.

Condensation

In winter, if this system is brought from outdoors into a heated room or the temperature of the room where this system is installed is raised quickly, the operation unit or lens will be covered by condensation.
When covered by condensation, this system cannot read and play laser beam signals.
Keep this system at room temperature for one to two hours depending on the degree of condensation and the condensation will evaporate, making this system ready for playing.
Other symptoms similar to condensation may also occur at places exposed directly to a cooler or air-conditioner in summer. In such a case, move this system to another location.

Special cautions on setting

① **Power capacity**
Supply power from a wall outlet that allows a safe supply of power equal to or more than the total power consumption of all equipment you will use.
② **Connection cord**
Prevent the weight or tensile force of the cord from being applied to the plug of the connection cord.
③ **Grounding**
Where no earth leakage breaker is available, connect the grounding conductor to the earth.
④ **Confirmation after setting**
Be sure to confirm the following:
- Casters are locked.
- The menu sheet matches the discs.
- The external speaker phase is properly set and the right and left speakers are positioned properly.

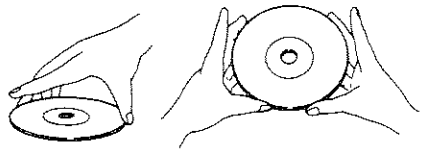
Our company will not be responsible for any accident or other damage due to an improper fixing condition, fixing with insufficient strength, accident, or other similar circumstances.

CARE OF DISCS

- With this unit, use discs which display the mark shown below.

COMPACT disc DIGITAL AUDIO

- When holding discs, do not touch their signal surfaces. Hold the edges, or one edge and the center hole.

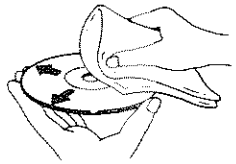


- Do not affix labels or adhesive tape to the label surfaces. Also, do not scratch or damage the label.

- Discs rotate at high speed inside the player. Do not use damaged (cracked or warped) discs.

CLEANING DISCS

- The presence of fingerprints or smudges on the surface of the disc will not directly affect the recorded signals; but depending on the degree of contamination, the brightness of the light reflected from the signal surfaces may be reduced, causing degradation of sound quality.
Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter.



- If a disc becomes very dirty, wet a soft cloth in water. After wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.
- Do not use record cleaning sprays of anti-static agents on discs. Also, never clean discs with benzene, thinner, or other volatile solvents which may cause damage to the disc surface.

STORING DISCS

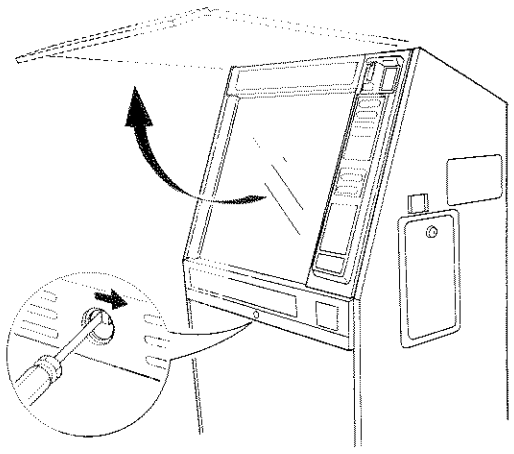
(Storing without using the six-disc magazine)

- Discs are made of the same kinds of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with heat or humidity, or extremely low temperatures. Avoid leaving discs in cars and on the seats being exposed to direct sunlight. This can be harmful to your discs.
- Always read and abide by the precautionary notes listed on the disc labels.

PREPARATION

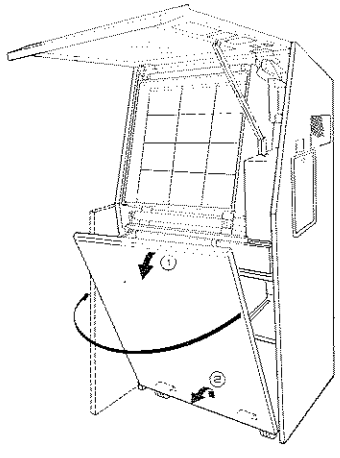
HOW TO OPEN THE MENU DOOR

① Push the lever with a screwdriver through the lock installing hole towards the right and release the lock.
② Hold the menu door up and make sure that it is fastened to the arm.

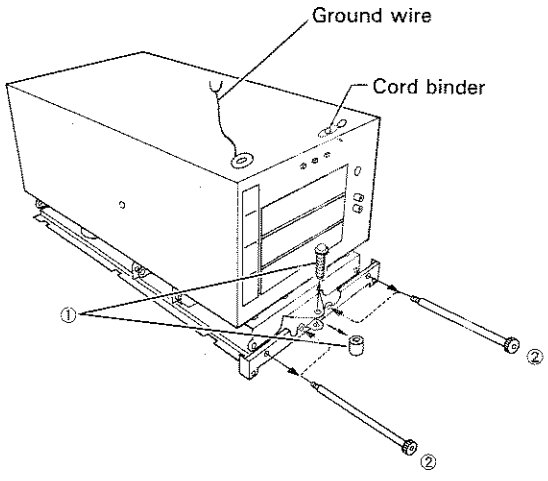


HOW TO OPEN THE MAIN UNIT DOOR

- The upper part of the main unit door is held to the main unit with a magnet. To open it, pull the upper part towards you.
- A string is attached as stopper on the left side.
- To remove the main unit door for connection etc., hold the door up, and pull the two flanges located on the bottom of the door out of the slit.
- When working on the inside of the main unit, put the removed main unit door beside the right side of the unit. Be careful not to disturb the connection cable.



REMOVING THE TRANSPORT SCREWS FROM THE CD PLAYER



The vibration-protection of the CD player is fixed with three screws for shipping.
① Remove the screws and spacer on the front center.
(Keep the removed screws in the pocket inside the main unit door in case it becomes necessary to move the unit again.)
② Remove those screws on both sides of the front, and install them to the holes indicated by the arrows.

When transporting the CD player, make sure to install the screws for protection.

CONNECTION

CONNECTING THE CD PLAYER

① Connect the CD player's CONTROL jack to the controller's CONTROL jack with the control cord.
② Connect the CD player's AUDIO OUT jacks to the amplifier's INPUT jack with the audio cord.
③ Connect the CD player's power cord to the AC OUTLET of the amplifier section.
④ Connect the ground wire to the ground terminal.

When combining with other devices (such as an amplifier)

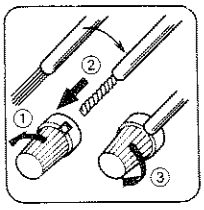
Connect the LINE OUT jack located on the rear panel to the input jack of the other device.

CONNECTING THE POWER CORD

After completing connection of all signal lines and setting the line voltage selector properly, connect the power cord to the wall outlet.

CONNECTING THE EXTERNAL SPEAKERS

- External speakers can be connected to the EXTERNAL SPEAKERS terminals located on the rear of the main unit.
- Connect the "+" terminals on this unit to the "+" terminals on the speakers, and the "−" terminals on the unit to the "−" terminals on the speakers.



① Loosen cap.
② Insert wire.
③ Tighten cap.

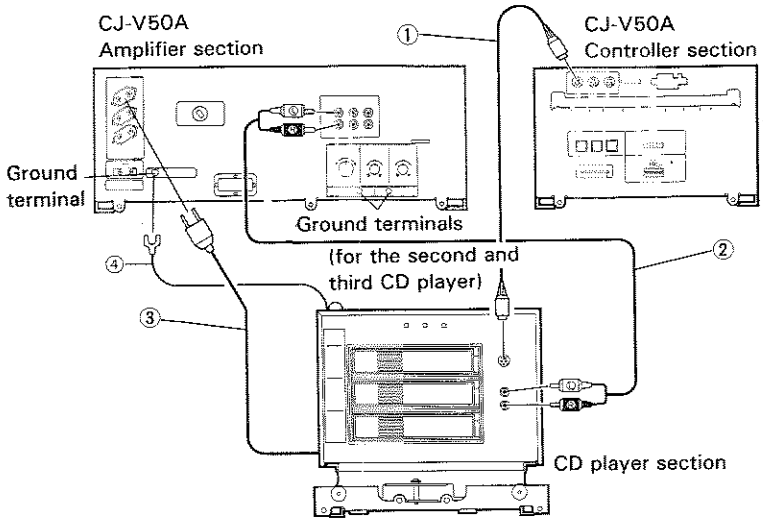
NOTE:
Do not allow any of the cord's conductors to protrude from the terminals or touch any other conductors. Malfunctions or breakdowns may occur when conductors come into contact with each other.

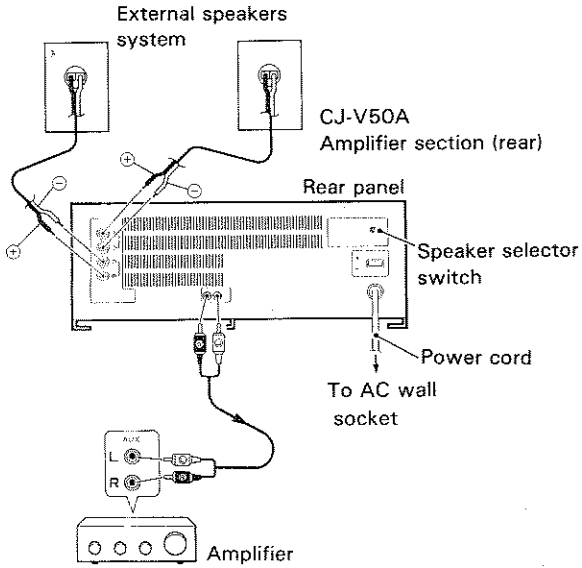
Speaker impedance

Connect speaker systems with a nominal impedance of between 8 and 16 ohms.

Setting of speaker selector switch

When using only the built-in speakers, set the switch to the right. When using both built-in and external speakers, set the switch to the left side.





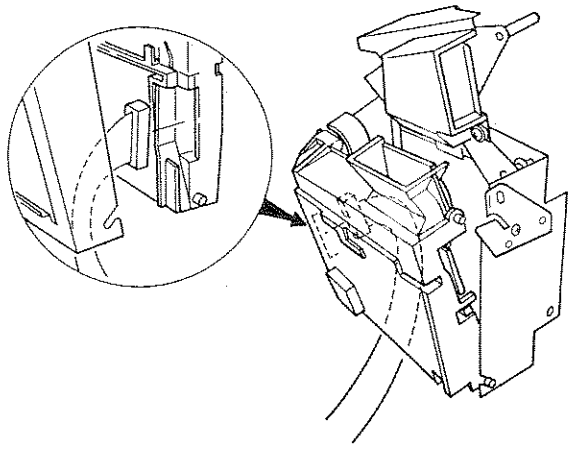
ATTACHING THE COIN ACCEPTOR

When using coins for the CD jukebox, the coin acceptor must be installed.

Install the coin acceptor.
Insert the upper part first.

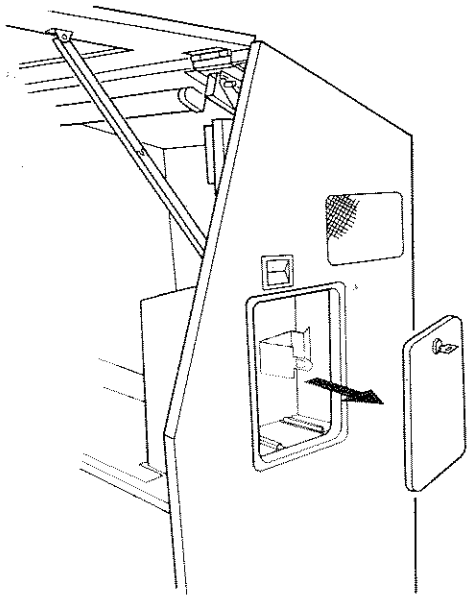
* Use an MS111B1 made by MARS for the coin acceptor.

CAUTION
THIS INSTALLATION SHOULD BE MADE BY A QUALIFIED SERVICE PERSON AND SHOULD CONFIRM TO ALL LOCAL CODES.

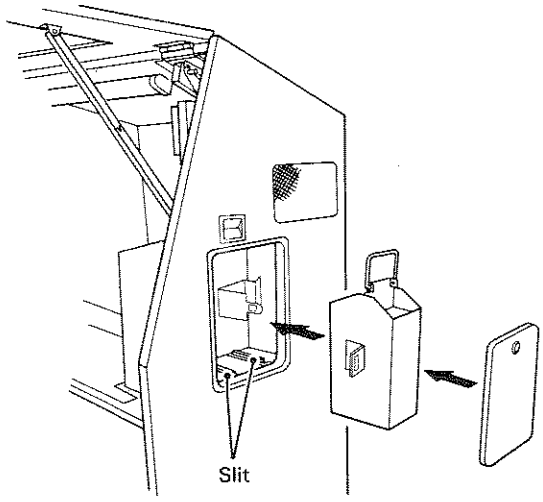


ATTACHING THE COIN BOX

① Open the cover of the money storage located on the right side of the CD jukebox (from the front.)



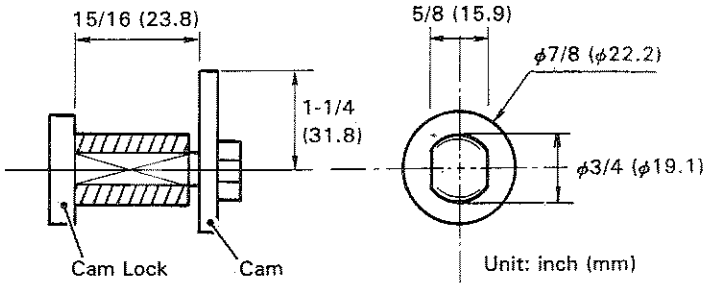
② Reinstall the coin box.

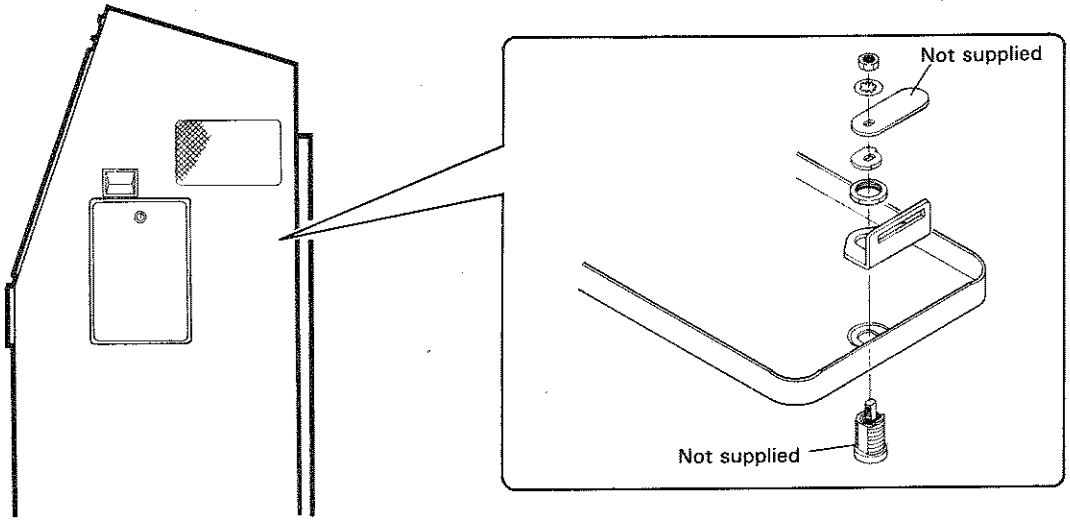


INSTALLING THE LOCK ON THE CHARGE STORAGE COVER

Install a retainer so that the cover can be locked.
Arrange the groove of the guarding metal so that the retainer can move.

A Cam FL 114, CamLock 8078 made by American Lock Co. for the lock of the charge storage cover is recommended.
Install a retainer so that the cover can be locked.

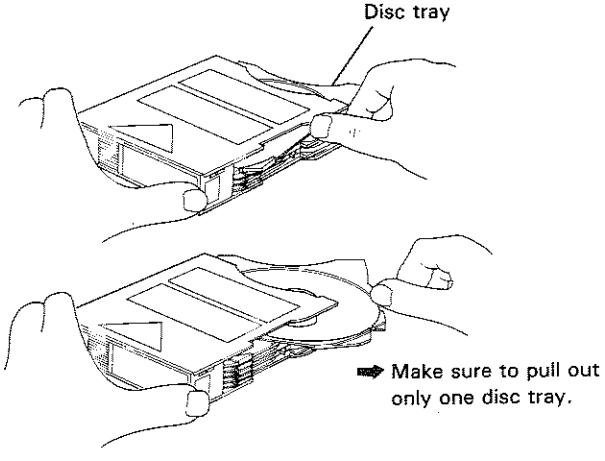




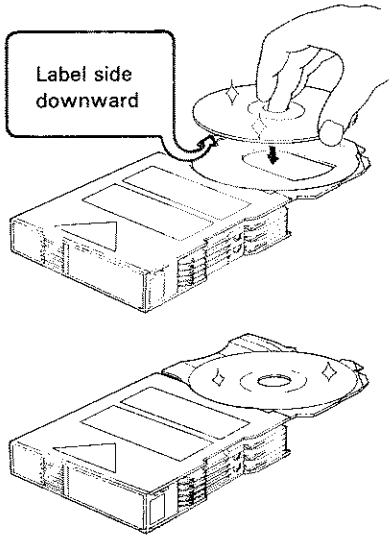
INSTALLING DISCS TO THE MAGAZINES

Insert any discs which you may have into the magazine. Up to six discs may be inserted. The numbering of the discs begins with 1 at the topmost tray, and then increases in order from 2 to 6 for the lower trays.

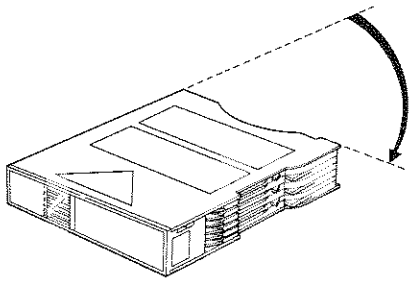
① Pull out only one disc tray.



② Position discs with the label side downward.



③ Push the disc tray back in.



④ Insert other discs by repeating steps ① to ③.

NOTE:

- *Please make sure to only pull out one disc tray at a time. (When a disc tray has been pulled out, do not pull out other disc trays.)*
- *If discs are inserted label side upward, it will not be possible for them to be played. Please make sure to insert them with the label side downward.*
- *Objects other than discs (song cards, explanations of disc contents, etc.), must never be inserted into the disc trays.*
- *Do not touch the playing surface of discs (the iridescent side) with hands or fingers.*

⑤ Insert the magazine into the appropriate magazine insertion slot of the CD player until it clicks.

⑥ Insert the magazines into other magazine insertion slots by repeating step ① to ⑤.

IMPORTANT

Make sure to insert all three magazines into the three magazine insertion slots of the CD player.
Otherwise, the CD player will not operate.
Insert an empty magazine if no discs are required.

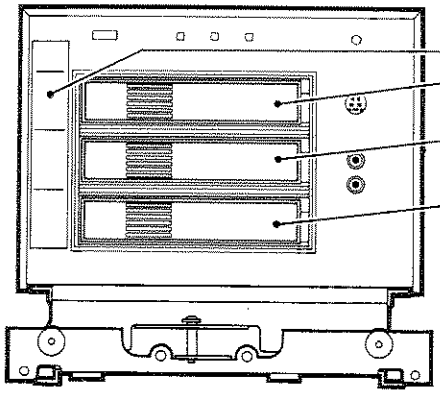
CAUTIONS REGARDING HANDLING OF MAGAZINES

- When inserting a magazine into the player, make sure that the direction of insertion is correct.
- After use, store in the case provided. Do not place in locations subjected to high temperatures or exposed to direct sunlight.
- Do not take magazines apart.
- Be careful not to drop or hit magazines against things. Also, do not apply strong force to trays which have been withdrawn.
- Application of benzene, thinner, insecticide or other volatile liquids to a magazine may damage the surface, so keep magazines away from such substances.

CAUTION

This magazine is for use with the CD JUKEBOX and, because of the wear which naturally occurs, should be replaced at 6 monthly intervals.
The 6 monthly interval is a rule of thumb. The real replacement interval depends on the frequency of use and the circumstances. The ball bearing becomes worn after the same tray has been used for play 5,000 – 8,000 times. Using the worn ball bearing increases the load to the mechanism, resulting in damage on the drive motor or other parts. Early replacement is therefore recommended.

When exchanging the magazine, use the separately sold magazine (JD-MV201) only.

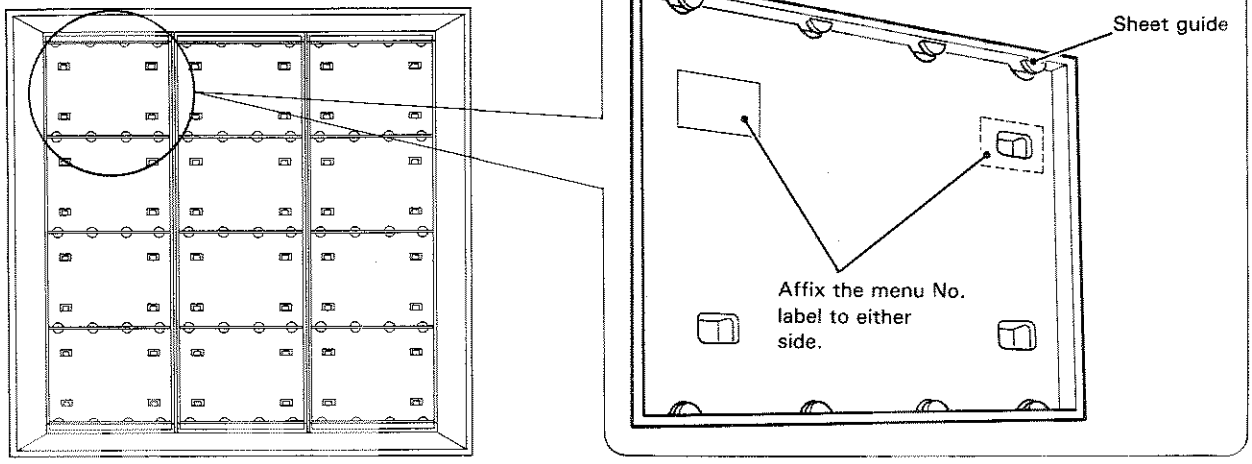


Affix the supplied labels.

- Refer to the first CD player for affixing the labels.
- The labels should be "No.2 PLAYER" for the second CD player, and "No.3 PLAYER" for the third CD player.

ATTACHING THE MENU SHEET

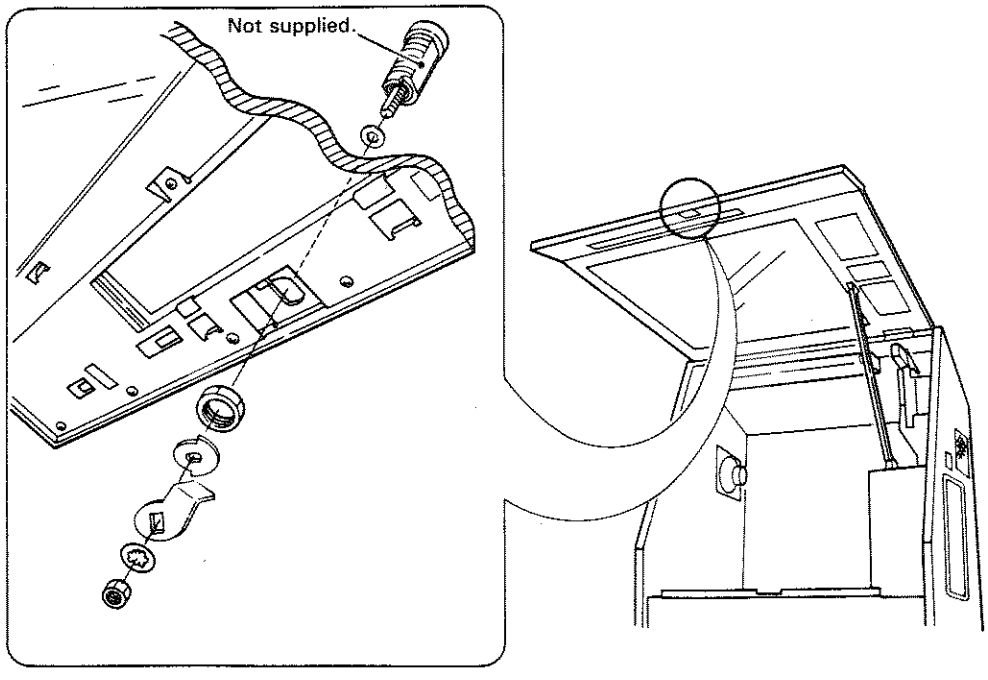
① Affix the menu No. label corresponding to the same number as the disc number of the CD player.
② Insert the upper portion of the menu sheet into the sheet guide.
③ Bend the sheet and insert the lower portion into the sheet guide.

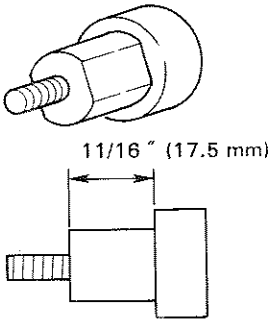


INSTALLING THE LOCK TO THE MENU DOOR

Install the lock as shown in the illustration so that the retainer can be moved by the key.
Make sure, and turn the key when closing the door.

Use a CamLock 8068 made by American Lock Co. for the lock of the menu door.

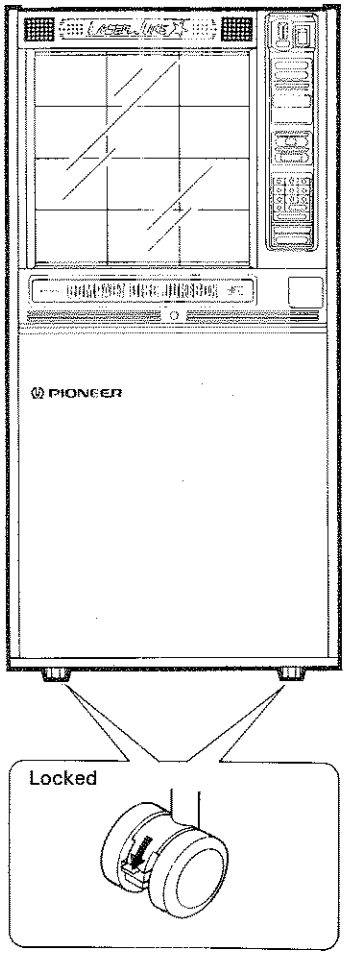




CASTER LOCKING

The front casters are equipped with a locking mechanism. Make sure to lock the casters after installation as shown in the illustration.

Open the main unit door before caster locking. (see page 5).

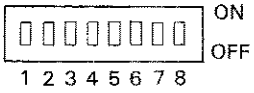


Lift the claw to unlock.

Lower the claw to lock. If locking is difficult, rotate the wheel a little.

SETTING OF THE FUNCTION SWITCHES

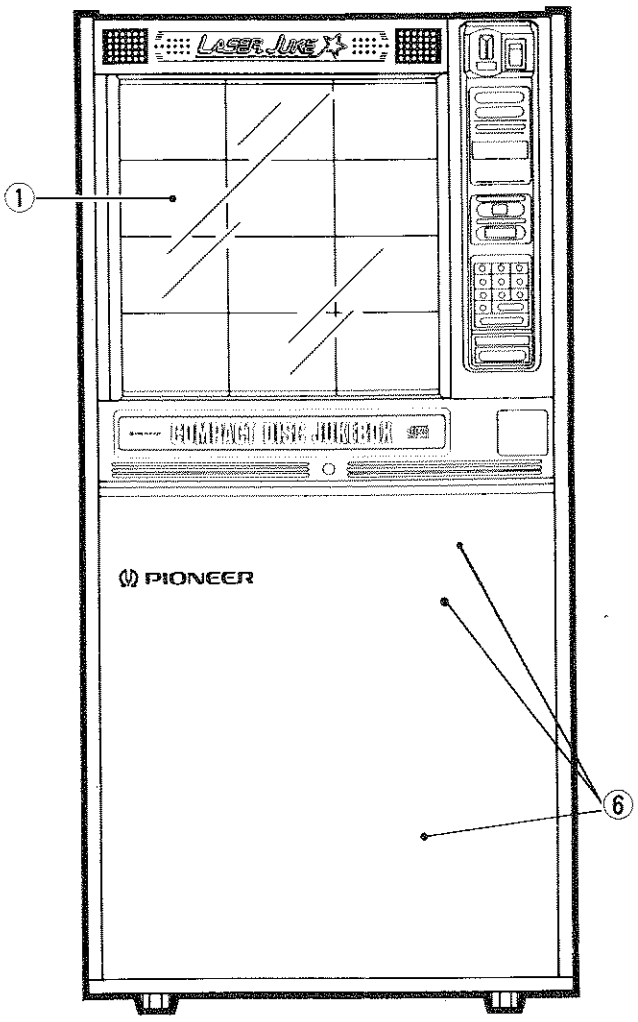
(DIP switches for FUNCTION)
Function setting is effective only when the power is switched ON.

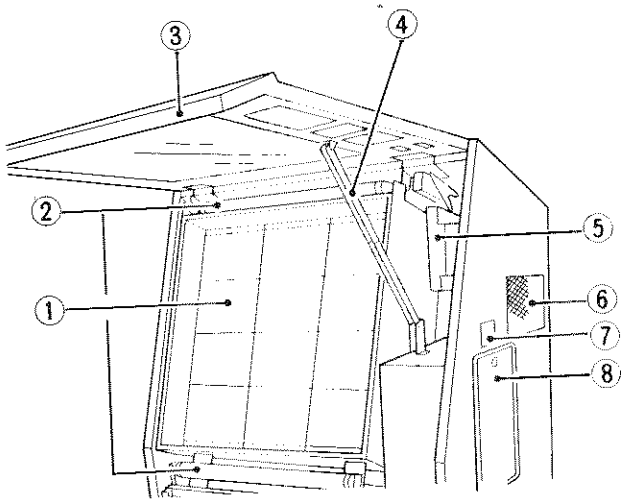


No.	Panel display	Up / Down	Description
1	FREE PLAY	No charge	Plays without charge.
		Charge	Plays only when coins are put in.
2	—	—	—
3	—	—	—
4	—	—	—
5	BEST6-10/ RANDOM (Functions when AUTO PLAY 7 is ON.)	UP	Plays back the 6th to 10th BEST songs.
		DOWN	Plays back songs by random selection.
6	—	—	—
7	AUTO PLAY	ON	Selects songs at random and plays them as long as no song is being selected.
		OFF	Does not perform AUTO PLAY.
8	—	—	—

No function is assigned to the switches 2, 3, 4, 6 and 8.

NAME AND FUNCTION OF EACH PART





① Menu board

② Fluorescent lamp for menu illumination

③ Menu door

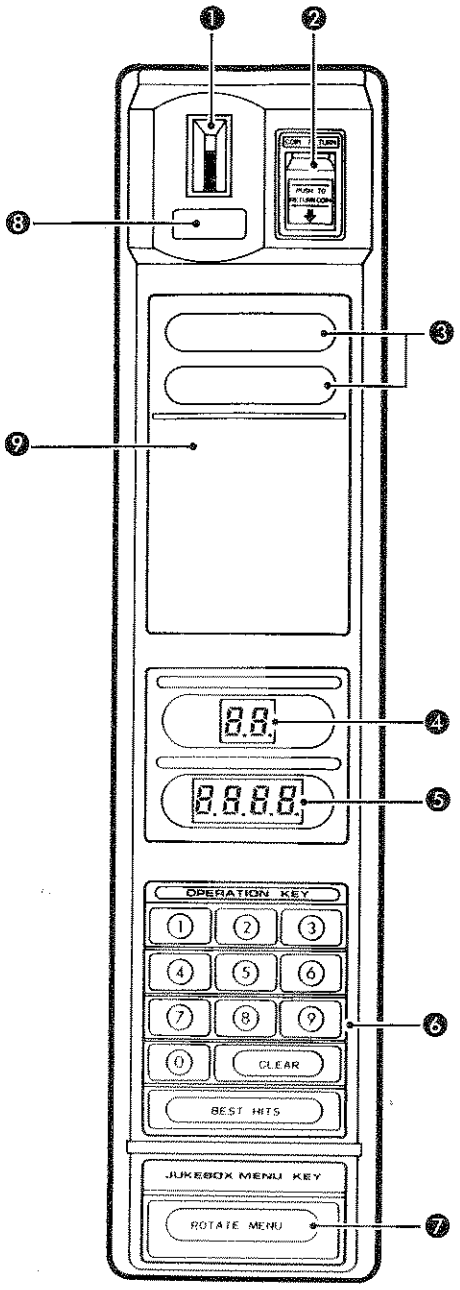
④ Arm

⑤ Coin acceptor

⑥ Speakers

⑦ Coin-return hole
When a coin is inserted while the indication "DEPOSIT CASH" is off or unacceptable kinds of coins are inserted, they are returned via this hole.

⑧ Charge storage cover



(OPERATION SECTION)

❶ Coin insertion hole

CAUTION:
Inserted coins will not be returned even though the coin-return lever is operated. Insert only the amount of coins needed.

❷ Coin-return lever

Operate the coin-return lever when a deformed or steel imitation coin is caught. This will cause the coin to return via the coin-return hole.

❸ Operation guide display

- **DEPOSIT CASH.**
  When this indication is lit, you can insert cash.
- **MAKE SELECTION.**
  This indication is lit when the system is ready for music selection.

❹ SELECTIONS REMAINING indicator

This indication shows the number of music titles you can select using the inserted cash.
"FP" is displayed during free play.

❺ YOUR SELECTION/NOW PLAYING indicator

This indication shows the number of credit entering by using numeric keys.
When no key input is being done, this indication shows the number of the music title currently being played.
"OPEN" is displayed while the menu door is open.

❻ OPERATION KEY

- **Numeric keys**
  Use these keys to enter the disc number and track number to be played.
- **CLEAR key**
  The selection can be canceled by pressing the CLEAR key while the digits are flushing after entering the last digit.
- **BEST HITS key**
  The most-popular piece of music on the location is automatically selected.

❼ ROTATE MENU key

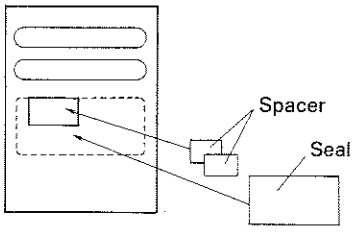
To rotate the menu board.
A maximum of 3 menu boards can be displayed.

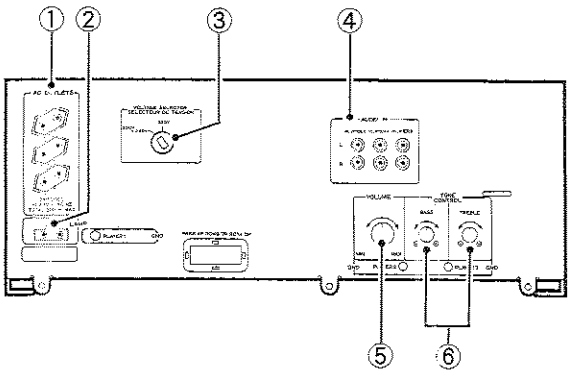
❽ Location to attach the coin slot sheet

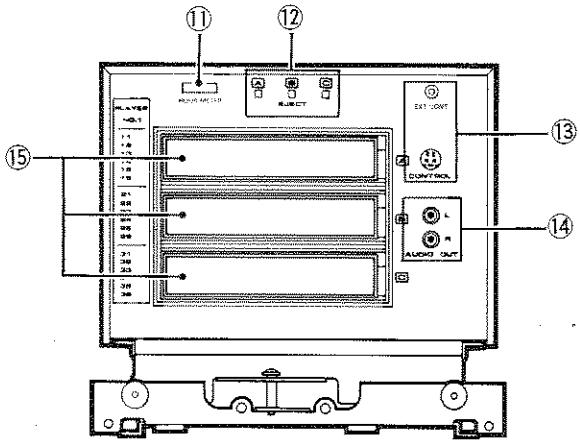
Attach the supplied coin slot sheet (shows the kind of coins to be accepted).

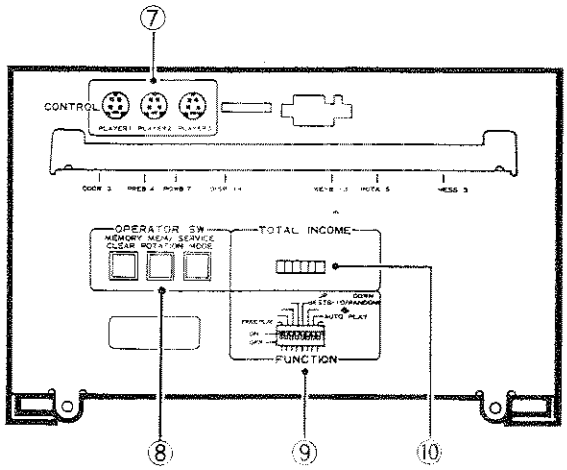
❾ Location to attach the PRICE OF SELECTIONS seal

Attach the seal which show the prices of the song to be played.
First attach the two supplied spacers, then fix the seal.









(INSIDE OF THE MAIN UNIT DOOR)

■ Amplifier section

① AC OUTLETS (SWITCHED 200 W MAX)

Connect the power cord of the CD player.
Power supplied through these outlets is turned ON/OFF by the equipment's POWER switch. The total electrical power consumption of connected equipment should not exceed 200 W.

NOTE:
Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS in order to avoid overheating or fire risk.
This can cause the equipment to malfunction.

② LAMP terminal

③ VOLTAGE SELECTOR switch (see page 2)

④ AUDIO IN jacks

Connect to the AUDIO OUT jacks of the CD player with the audio cord.

⑤ VOLUME control knob

⑥ TONE CONTROL knob

BASS ..... Adjusts the bass level.
TREBLE ..... Adjusts the treble level.

■ Controller section

⑦ CONTROL jacks

Connect to the CONTROL jack of the CD player with the designated control cord.

⑧ OPERATOR SW (switches)

MEMORY CLEAR:
To clear the previous memory.
MENU ROTATION:
To rotate the menu board.
SERVICE MODE:
To set to service mode.

⑨ FUNCTION switches

See page 11.

⑩ TOTAL INCOME counter

Displays the amount of cash deposited. Reset impossible.

■ Compact disc player section

⑪ HOUR METER

Displays the duration of time the unit has been used.

⑫ EJECT keys

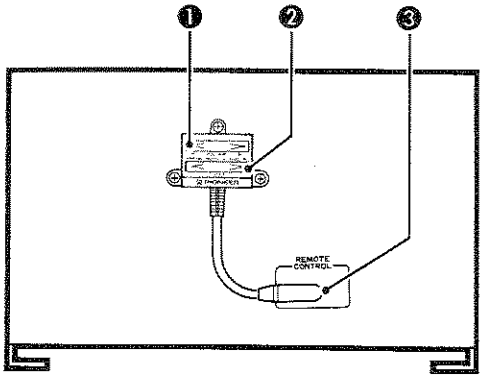
Press to eject the magazines.

⑬ CONTROL jacks

CONTROL:
Connect to the specified CONTROL jacks (PLAYER 1) of the controller section.
EXT CONT.:
A terminal to externally control the CD player. Usually not used.

⑭ AUDIO OUT jacks

Connect to the specified AUDIO IN jack (PLAYER 1) of the amplifier section.



⑮ Magazine insertion slots

Insert the 6-disc magazine.
Make sure to insert all three magazines into the three slots. Otherwise, the CD player will not operate.
Insert an empty magazine if no disc is necessary.

(REAR PANEL AND REMOTE CONTROL UNIT)

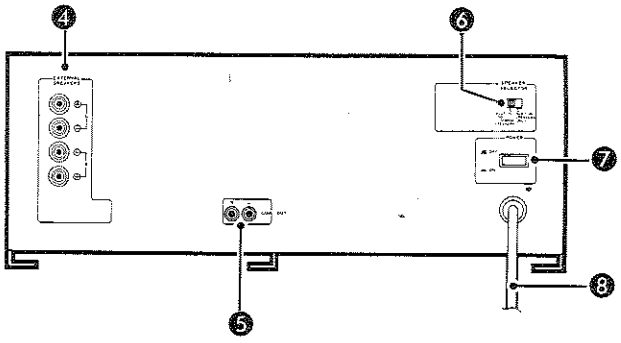
❶ VOLUME key

+: Increases the volume level.
−: Decreases the volume level.

❷ CANCEL key

To cancel a selected song.
When both ends of the key A and B are pressed simultaneously, the song being played will be stopped and the next selected song will be played.

❸ Remote control terminal



❹ EXTERNAL SPEAKERS terminals

L: Connect the left speaker system as seen from the listening position.
R: Connect the right speaker system as seen from the listening position.

NOTE:
Connect a speaker system having a nominal impedance ranging from 8Ω to 16Ω.

❺ LINE OUT jacks

CD audio is output.

❻ SPEAKER SELECTOR switch

Selects the speakers to be used for playback.
When using only the built-in speakers: Set the switch to the right.
When using both built-in and external speakers: Set the switch to the left.

❼ POWER switch

Press to turn the power of the unit ON/OFF.

❽ Power cord

OPERATION

HOW TO SELECT A SONG

Ordinary selection

1. Rotate the menu by pressing the ROTATE MENU key, and select the desired song.

2. Insert coins.

3. Select a song.

- Type in a two-digit disc number and a track number.
- To play an album, type in a two-digit disc number and "00".
- The selection can be canceled by pressing the CLEAR key while the digits are flushing after entering the last digit.
- A beep sound occurs when confirming the input. Keys which are not available for input are not lit. If the not-lit key is depressed, a beep sound occurs twice.

One-touch selection

1. Insert coins.

2. Press BEST HITS key for the most popular songs.

Playback sequence

- Playback is made by arranging the reserved selection in a certain order.
- Multiple selections are played only once.

Volume adjustment and song cancellation by the remote control unit

Volume can be adjusted by the supplied remote control unit.
The volume increases when the "+" side is pressed, and decreases when the "−" side is pressed.
To cancel the song being played, press both ends of the RESET key at the same time.

REPLACING THE MENU AND DISC

To update the contents of the jukebox menu, replace the CD and corresponding menu sheet together.

① Open the menu door.
② Open the main unit door.
③ Replace the menu sheet corresponding to the replaced disc number.
④ Remove the magazine, which contains the disc to be replaced, from the CD player.
   1. Press the EJECT key (A/B/C) of the magazine to remove.
   2. Remove the magazine.
   3. Pull out the disc tray and replace the disc.
   4. Return the disc tray.
      See page 8 for the installation of the disc to the magazine.
⑤ Insert the magazine into the slot of the CD player as before.
⑥ Close the main unit door and menu door, and lock them.

ADDING A CD PLAYER

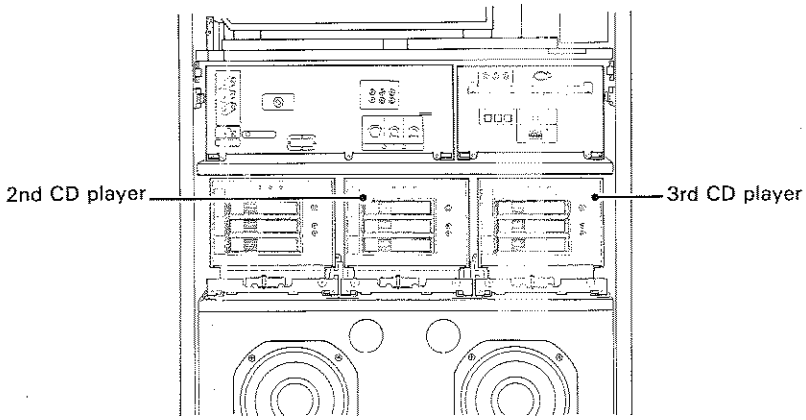
A maximum of two CD players can be added. (A total of three CD players can be used).

① Turn the power OFF.
② Open the menu door.
③ Remove the main unit door.
④ Remove the transport screws of the CD player.
   • See page 5.
⑤ Install the CD player.
   • Insert the CD player along the installation rail.
⑥ Connect the CD player's CONTROL jack to the controller's CONTROL jack using the designated control cord.
⑦ Connect the CD player's AUDIO OUT jack to the amplifier's INPUT jack using the audio cord.
⑧ Connect the CD player's power cord to the amplifier's AC OUTLET.

NOTE:
When connecting the CD player to the amplifier and controller sections, connect the second CD player to PLAYER 2, and the third CD player to PLAYER 3.

⑨ Reinstall the main unit door.
⑩ Close the menu door and lock it.

Refer to the operating instructions of PD-MV55

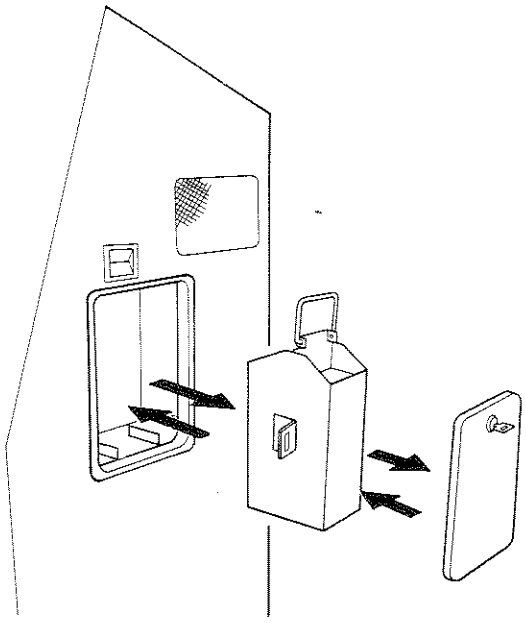


REMOVING COINS

Taking out/installing the coin box

① Open the charge storage cover, and take out the coin box by pulling the handle.
- Where the coin box is equipped with an anti-burglar key, remove the key before taking the coin box out.

② Collect the coins.
- After collecting the coins, fix the coin box as it was before. Incline the lever towards you and push it. Where necessary, install an anti-burglar key.

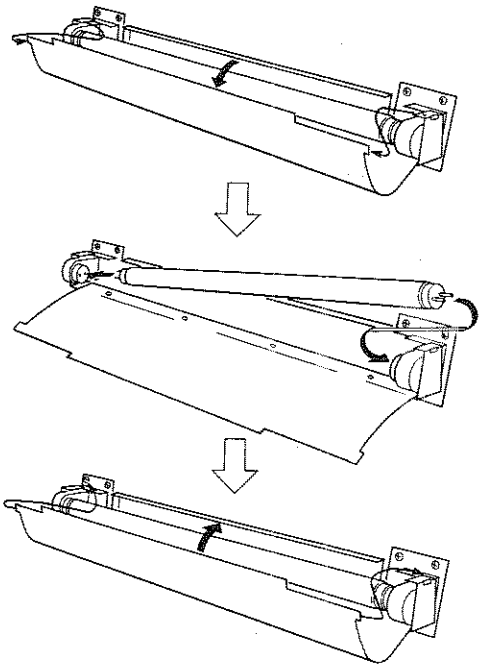


MAINTENANCE

CHANGING THE FLUORESCENT LAMPS

There are two fluorescent lamps located on the top and the bottom of the menu board.

① Turn the power OFF before changing the fluorescent lamps.
② Open the menu door.
③ Remove the colored cover of the fluorescent lamp.
④ Replace the fluorescent lamp (15 W).
⑤ Fasten the colored cover as before.

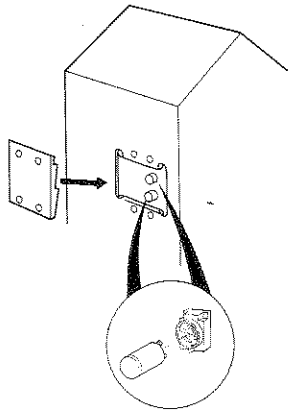


CHANGING THE GLOW LAMP

To replace the glow lamp, remove the glow lamp cover on the rear.

① Turn the power OFF before changing the glow lamp.
② Open the glow lamp cover.
③ Replace the glow lamp.
- The right glow lamp is for the lower fluorescent lamp, and the left glow lamp is for the upper fluorescent lamp.
- Remove the burnt-out glow lamp by turning it to the left. Install a new glow lamp.

④ Install the glow lamp cover and tighten the screws.



SERVICE MODE

HOW TO USE SERVICE MODE (Operation mode)

The CJ-V50A is provided with a service mode (operation mode) in which the following operations are available:

	Submode		Function mode		Function mode and operation (A B : A ··· Function mode, B ··· Operation)	
Reference mode	1	Audits	1	Playback audits (counting after previous reset)	11	Displays the number of songs selected for free-of-charge playback.
					12	Displays the number of songs selected for paid playback.
					13	Displays the number of songs selected in the normal mode.
					14	Displays the number of BEST HITS songs selected.
					15	Displays the number of albums selected.
					16	Displays the number of times of mechnical action.
			2	Cash audits (counting after previous reset)	21	Displays total cash
					22	Displays the total number of coin B.
					23	Displays the total number of coin C.
					24	Displays the total number of coin D.
					25	Displays the total number of coin E.
					26	Displays the total number of coin F.
			3	Non-resettable playback audits (cannot be reset after shipping)	31	Displays the number of songs selected for free-of-charge playback.
					32	Displays the number of songs selected for paid playback.
					33	Displays the number of songs selected in the normal mode.
					34	Displays the number of BEST HITS songs selected.
					35	Displays the number of albums selected.
					36	Displays the number of times of mechanical action.
			4	Non-resettable cash audits (cannot be reset after shipping)	41	Displays total cash.
					42	Displays the total number of coin B.
					43	Displays the total number of coin C.
					44	Displays the total number of coin D.
					45	Displays the total number of coin E.
					46	Displays the total number of coin F.
	2	Others	1	Most popular song*	11	Alternately displays the number of the song most frequently selected and the number of times of playback.
					12 ⟆ 19	Alternately displays the number of the 2nd popular song and the number of times of playback.
					10	Alternately displays the number of the 10th popular song and the number of times of playback.

	Submode		Function mode		Function mode and operation (A B : A ··· Function mode, B ··· Operation)	
Reference mode	2		2	Most popular disc* *	21 22 ⟆ 29 20	Alternately displays the number of the disc most frequently selected and the number of times of selection. Alternately displays the number of the 2nd popular disc and the number of times of selection. Alternately displays the number of the 10th popular disc and the number of times of selection.
			3	Least popular disc* *	31 32 ⟆ 39 30	Alternately displays the number of the disc least frequently selected and the number of times of selection. Alternately displays the number of the disc which has been second least frequently selected and the number of selection. Alternately displays the number of the disc which has been tenth least frequently selected and the number of selection.
			4	Error history	41 42 43 44 45 46 47 48 49 40	Displays the most recent error code. Displays the error code of the previous error. Displays the error code of 2 steps before. Displays the error code of 3 steps before. Displays the error code of 4 steps before. Displays the error code of 5 steps before. Displays the error code of 6 steps before. Displays the error code of 7 steps before. Displays the error code of 8 steps before. Displays the error code of 9 steps before.
			5	Number of times of cancellation by track skips	51 52 ⟆ 59 50	Alternately displays the number of the disc most frequently cancelled and the number of time of cancellation. Alternately displays the number of the 2nd frequently cancelled and the number of time of cancellation. Alternately displays the number of disc 10th frequently cancelled and the number of time of cancellation.
			6	Display of ID No.	61 62 63 64	} Displays location No. } Displays serial No. The ID No. consists of four sections, and each section will be displayed separately. ******-****** 61 62 63 64 Location No. Serial No.
			7	Display of microcomputer Ver.	7	Displays the version of the built-in microprocessor.

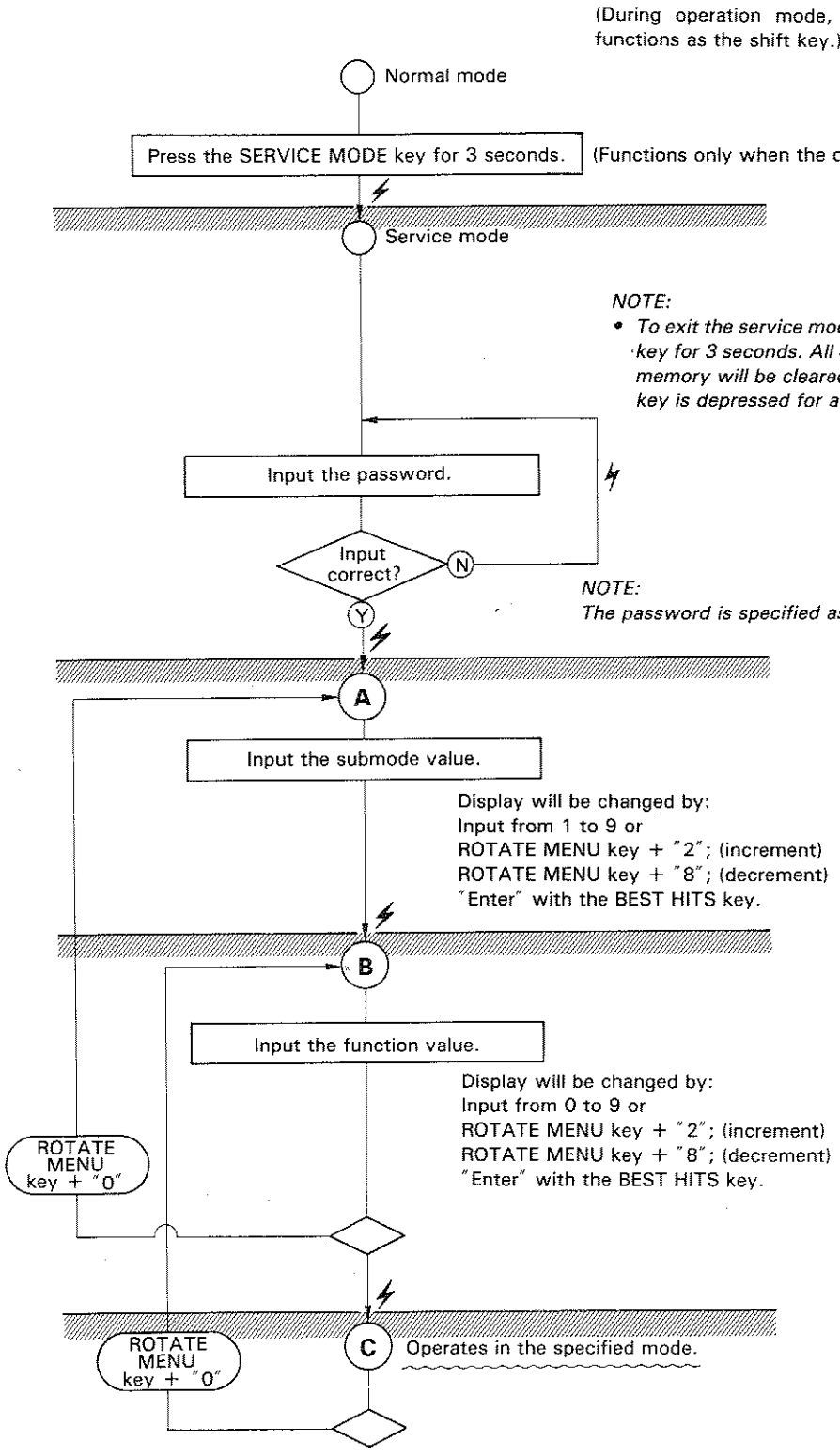
	Submode		Function mode		Function mode and operation (A B ; A ··· Function mode, B ··· Operation)	
Setting mode	3	Credit rate	1	Weight setting (magnification) of coins	11 12 13 14 15	Weight setting of coin B Weight setting of coin C Weight setting of coin D Weight setting of coin E Weight setting of coin F
			2	Setting of credit rate (1)	21 22 ⟆ 29 20	Credit generated by 1 unit Credit generated by 2 units Credit generated by 9 units Credit generated by 10 units
			3	Setting of credit rate (2)	31 32 ⟆ 39 30	Credit generated by 11 units Credit generated by 12 units Credit generated by 19 units Credit generated by 20 units
	4	Others	1	Number of times of skip for cancellation	1	Sets the number of track skips allowed in one song.
			2	Auto-play interval input	2	Sets the interval time during auto-play in units of minutes.
			3	Pass word input	3	Sets a 4-digit number.
			4	ID No. input	41 42 43 44	} Location No. } Serial No. The ID No. consists of four sections. Input it as follows: ✱✱✱✱✱✱−✱✱✱✱✱ 41 42 43 44 Location No. Serial No.
Delete mode	5	Delete	1	Deleting playback audits	1	The playback audits setting is cleared by pressing the CLEAR key.
			2	Deleting cash audits	2	The setting of cash audits is cleared by pressing the CLEAR key.
			3	Deleting all data concerning disc	3	The data concerning a disc and BEST HITS songs, which are stored in the memory, can be cleared by pressing the CLEAR key.
			4	Deleting error history	4	The data on error history is cleared by pressing the CLEAR key.
			5	Deleting credit	5	Credit is cleared by pressing the CLEAR key.
			6	Deleting song selection	6	The song selection is cleared by pressing the CLEAR key.

	Submode		Function mode		Function mode and operation (A B; A ··· Function mode, B ··· Operation)	
Aging mode	6	Aging	1	Number of time of aging	1	Number of times of aging.
			2	Aging (A)	2	All the songs are played in sequence starting with the uppermost disc (i.e., increase in the disc number). Every time one song has been completely played, the disc is returned to the magazine and the elevation mechanism is returned to the home position (the lowest position). The next song is then accessed. The system stops when all the songs have been completely played.
			3	Aging (b)	3	One song on each disc is played for 30 seconds in sequence, starting with the uppermost disc. The elevation mechanism is returned to the home position (the lowest position) after termination of playback. The next song (i.e., the next disc) is then accessed. The system stops when all the discs have been played.
			4	Aging (C)	4	The first and last songs on each disc are played for 30 seconds for each song in sequence starting with the uppermost disc. The elevation mechanism is returned to the home position (the lowest position) after termination of playback. The next song (i.e., the next disc) is then accessed. The system stops when all the discs have been played.
Check mode	7	Hard ware check	1	LED check	1	All LEDs light up.
			2	DIP switch setting display	2	DIP switch setting display.

* In case that there are more than one song with the same number of times of selection, the song that has been selected last is given priority.

** In case that there are more than one disc having the same number of times of selection, the disc with the smaller disc number is given priority.

SERVICE MODE (OPERATION MODE) flowchart

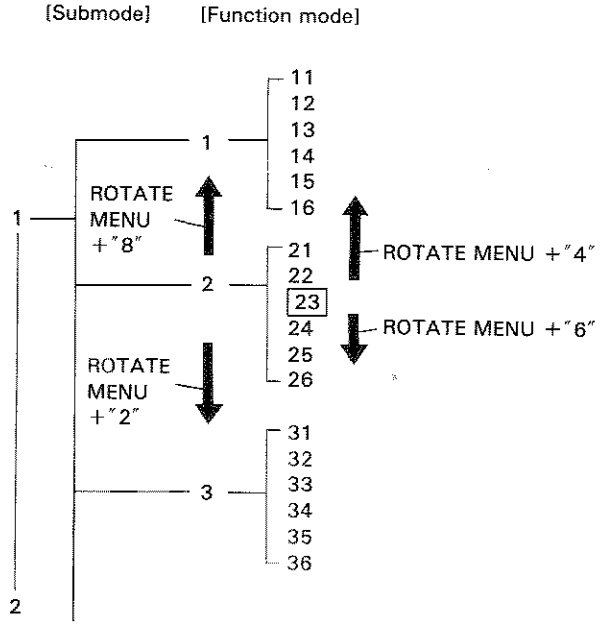

(During operation mode, the ROTATE MENU key functions as the shift key.)
Normal mode
Press the SERVICE MODE key for 3 seconds.
(Functions only when the door is open.)
Service mode
NOTE:
• To exit the service mode, press the SERVICE MODE key for 3 seconds. All data except "Non-resettable" memory will be cleared when the MEMORY CLEAR key is depressed for about 15 seconds.
Input the password.
Input correct?
N
Y
NOTE:
The password is specified as "0000" upon shipping.
A
Input the submode value.
Display will be changed by:
Input from 1 to 9 or
ROTATE MENU key + "2"; (increment)
ROTATE MENU key + "8"; (decrement)
"Enter" with the BEST HITS key.
B
Input the function value.
Display will be changed by:
Input from 0 to 9 or
ROTATE MENU key + "2"; (increment)
ROTATE MENU key + "8"; (decrement)
"Enter" with the BEST HITS key.
ROTATE MENU key + "0"
ROTATE MENU key + "0"
C
Operates in the specified mode.

Shift key

During the service mode, the ROTATE MENU key functions as the shift key. When one of keys "0", "2", "4", "6" or "8" is pressed while depressing the ROTATE MENU key, the operation will be as follows:

ROTATE MENU	+	0	Reverses the progress of the service mode. Progress can be reversed as Ⓒ → Ⓑ or Ⓑ → Ⓐ (see the SERVICE MODE flowchart).
		2	① Increases the numeric value during input of the value for submode or function mode. ② Increases the submode value during execution (step Ⓒ). ③ Increases the function mode value (upper digits) during execution (step Ⓒ).
		8	① Decreases the numeric value during input of the value for submode or function mode. ② Decreases the submode value during execution (step Ⓒ). ③ Decreases the function mode value (upper digits) during execution (step Ⓒ).
		6	Increases the function mode item (lower digits) during execution (step Ⓒ).
		4	Decreases the function mode item (lower digits) during execution (step Ⓒ).

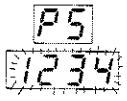
(Example) During execution in the submode 1 and the function mode 12.



Display and Usage

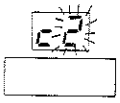
During the service mode, display is made with the indicators of SELECTION REMAINING and YOUR SELECTION/NOW PLAYING.

1. Inputting the password



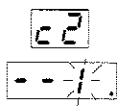
Displays "PS".
Input the password with the number keys.
(Example) [1] [2] [3] [4]
Upon correct input, "beep" will sound and it changes to submode input.
Upon incorrect input, "beep-beep" will sound. Input the password correctly.

2. Inputting submode



Displays "C".
Input the submode with the number keys.
(Example) [2]
When the BEST HITS key is pressed, "beep" will sound and it changes to function mode input.
When a number not existing in the submode is input, "beep-beep" will sound. Input a correct number.

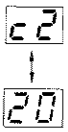
3. Inputting function mode



The "– –" light up for the first two digits.
Input the value for the function mode (an upper digit or an upper and lower digit) with the number keys.
(Example) [1]
When the BEST HITS key is pressed, "beep" will sound and changes to the execution mode.
When number(s) not existing in the function mode are input, "beep-beep" will sound and it reverses to the previous display. Input correct number(s).

4. During execution

(1) SELECTION REMAINING indicator



Alternately displays the submode (c2) and the function mode (20) for approximately once a second each.
If an upper digit is specified for the function mode value, a small "0" will be displayed for the lower digit.

(Example)

(2) YOUR SELECTION/NOW PLAYING indicator

- **Submode 1**

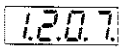
Up to 999,999 will be displayed.
The number will be displayed completely if the value is smaller-than-or-equal-to 9,999.
If the number is greater-than-or-equal-to 10,000, the first two digits and the remaining four digits will be displayed alternately.
(Example) Displaying 123,456:

(Displays periods and the first two digits.)

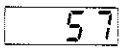
(Displays the remaining four digits.)

- **Submode 2**

[Function mode 11 to 19, 10]
Displays the song number and the number of times of playback alternately.
(Example) Playback of track No. 1207 for 57 times:



(Displays the track No. with periods.)

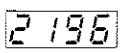


(Number of times of playback)

[Function mode 21 to 29, 20 and 31 to 39, 30]
Displays the disc number and the number of times as in the function mode 00 to 09. The disc number is displayed in the upper two digits, and the lower two digits are set to "00".

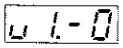
[Function mode 41 to 49, 40]
Displays the 4-digit error codes.

(Example) Search in the lowest disc of the third CD player fails due to exceeding the time limit.



[Function mode 61 to 64]
The ID number is displayed in 3-digit, 3-digit, 2-digit and 3-digit numbers.

[Function mode 7]
Displays the version of the built-in microprocessor.



- **Submode 3**

[Function mode 1]
The coin symbol (B to F) and the minus (–) symbol are displayed in the upper two digits, and the figures in the lower two digits blink.

(Example) When selecting "B":

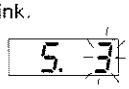
Function mode	Set coin symbol	Display
11	B	b-
12	C	C-
13	D	d-
14	E	E-
15	F	F-

Numbers from 0 to 20 can be set to the lower two digits. Input the numbers using the number keys and press the BEST HITS key. A beep sound will indicate that the input is completed, and value of the function mode will be increased.
When a function mode is set to "0", that coin will not be accepted.
Operates after closing the door when finishing the service mode.

When pressing the BEST HITS key while displaying a value larger than 21, the buzzer will emit a long beep sound and the display will change to "0", ready for reinput.

NOTE:
Set the coin symbols B to F by matching them to the coin symbols used in the MARS ELECTRONICS coin accepter MS111B1. For the MS111, set coin B to 0 and match coins C to F with the coin symbols.

[Function modes 21 to 29, 20 and 31 to 39, 30]
Set the rate of credit that is caused by inputting the coins. A virtual number of input coins and a period symbol (.) are displayed in the upper two digits, and the figures of the lower two digits blink.



If 0 is set for all function modes 21-29, 20 and 31-39, 30, no credit will be set when coins are input.

Precautions on setting:
Entering into the service mode and changing the value of the function mode during credit setting will change the amount of credit and may lead to improper credit calculation.

Example of rate setting

For the coin accepter MS111B1 for West Germany where 50 Pfennig is set as the basic unit (single unit), and not using 10 Pfennig:

Function mode	Set coin symbol	Coin	Set value
11	B	50 Pfennig	1
12	C	10 Pfennig	0
13	D	1 DM	2
14	E	2 DM	4
15	F	5 DM	10

Also set the function modes 21-29, 20 and 31-39, 30 as follows:

Function mode	21	22	23	24	25	26	27	28	29	20	31 ~ 39, 30
Unit	1	2	3	4	5	6	7	8	9	10	11 ~ 20
Set value	0	1	0	0	0	4	0	0	0	7	Set 0 to all modes.

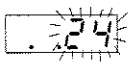
(If no tune was selected during playback:)
1 DM (2 units): 1 song
2 DM (4 units): 2 songs
3 DM (6 units): 4 songs
4 DM (8 units): 5 songs
5 DM (10 units): 7 song
6 DM (12 units): 8 songs
7 DM (14 units): 9 songs
8 DM (16 units): 11 songs

(When one or more songs were selected during playback: bonus is reset)
1 DM (2 units): 1 song
2 DM (4 units): 2 songs
3 DM (6 units): 4 songs
Song selection: Remaining songs: 3
4 DM (additional 2 units): 4 songs
5 DM (additional 4 units): 5 song
6 DM (additional 6 units): 7 songs
7 DM (additional 8 units): 8 songs
8 DM (additional 10 units): 10 songs

The types and rates of the coins set by the submode 3 will be stored after the power is turned OFF.

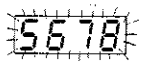
- **Submode 4**

[Function mode 1 to 2]
Displays a number up to two digits with periods.
(Example) Inputting "24":



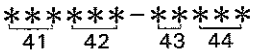
When the BEST HITS key is pressed, "beep" will sound and it changes to the next function mode.

[Function mode 3]
Displays a 4-digit number.
(Example) Inputting "5678":



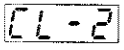
When the BEST HITS key is pressed, "beep" will sound and it changes to the function mode 41.

[Function mode 41 to 44]
The ID number is displayed in a 3-digit number for function modes 41, 42 and 44, and in a 2-digit number for function mode 43.

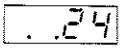


When the BEST HITS key is pressed, it changes to the next function mode. For function mode 44, however, the mode does not change.

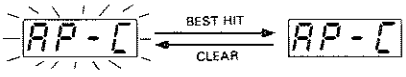
- **Submode 5**
  Displays "CL" and the function mode.
  (Example) Function mode 2:



- **Submode 6**
  [Function mode 1]
  Displays a number up to two digits with periods.
  (Example) Inputting "24":



[Function modes 2, 3, 4]
When the BEST HITS key has been depressed and the door has been closed, aging starts. The display then alternately indicates the music number being currently replayed AP-C (or AP-A or AP-B).
When the CLEAR key has been depressed, aging terminates and the display start blinking (standby mode).



ERROR CODE

Item	Error code	Option	Description
CASH	00	——	Trouble with coin acceptance*
	01	——	
	02	——	
	03	——	
PLAYER	20	Player number	Command break
	21	Disc number	Search timeout
	22	Disc number	Defocus
	23	Disc number	No disc
	24	Disc number	Trouble with setup
	25	Disc number	Impossible to return
	26	Disc number	Trouble with disc select
	27	Disc number	The select mechanism cannot return
COMMU-NICATION with CDP	40	Player number	Disabled communication
	41	Player number	Unknown code returned from the player.
	42	Player number	The player did not recognize the command.
	13	——	Undefined DRT line
	60	——	Undefined DIP switch
MENU ROTATER	80	——	Stop the driver if the rotator cannot be turned into the correct position within a period of 10 sec.

* Input time of signal is too long.

Other

- Error code 00 - 99 Up to 100 codes
- Option number
  CD player number:
  01 for the first CD player
  02 for the second CD player
  03 for the third CD player

Disc number: the upper two digits when entered.
(Examples)
96: the lowest disc in the third CD player
11: the uppermost disc in the first CD player

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Check the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest authorized PIONEER service center or your dealer to carry out repair work.

Symptom	Probable cause	Remedy
Cannot select songs.	• No coins are input. • Incorrect connection of the CD player.	• Input the specified charge. • Connect correctly.
Magazine is not ejected when EJECT key is pressed.	• Power plug is disconnected from outlet. • Power switch is OFF.	• Connect plug to AC OUTLET of the amplifier section. • Press POWER switch to ON.
When playback is started, it stops immediately.	• Disc is loaded upside down. • Smudges on the disc, etc.	• Load the disc correctly with the label side downward. • Clean the fog from the disc, and then play it again.
No sound	• Output cords are incorrectly or loosely connected. • Pin plugs and/or terminals are dirty.	• Connect properly. • Clean away dirt.

Symptom	Probable cause	Remedy
Sound is distorted, and noise occurs.	• Pin plugs and/or terminals are dirty.	• Clean away dirt.
With certain discs, loud noise is produced, or play stops.	• Disc has a bad scratch or warp. • Disc is extremely dirty.	• Replace the disc. • Clean the disc.

SPECIFICATIONS

Amplifier Section

DIN continuous power output (both channels driven)
1 kHz 1 %, 8 Ω ····· 120 W + 120 W
Continuous power output (both channels driven)
20 Hz to 20 kHz, T.H.D. 0.5 %, 8 Ω ····· 100 W + 100 W
Total harmonic distortion*
20 Hz to 20 kHz, 100 W, 8 Ω ····· 0.5 %*

* Measured by Audio Spectrum Analyzer.

Frequency Response ····· 20 Hz to 20 kHz ±1.5 dB
Tone Control
Bass (100 Hz) ····· Max. +10 dB, Min. −10 dB
Treble (10 kHz) ····· Max. +10 dB, Min. −10 dB

CD player section

Signal-to-Noise ratio ····· 94 dB or more
Dynamic Range ····· 85 dB or more
Wow and Flutter ····· ±0.001 % or less
Frequency Response ····· 4 Hz to 20 kHz ±1.5 dB
Total Harmonic Distortion ····· 0.1 % or less
Output Voltage ····· 1.8 V
Number of channels ····· 2 channels (stereo)
Dimensions ····· 239 (W) x 463 (D) x 215 (H) mm
Weight ····· 9 kg
Power Requirements ····· AC 220 V ~ 240 V, 50 Hz
Power Consumption ····· 28 W

Speaker Section

Enclosure ····· Bass-reflex type
Loudspeakers:
Woofer ····· 25 cm x 2
Mid range ····· 10 cm x 2
Tweeter ····· 6.6 cm x 2
Expansion speaker ····· 10 cm x 2
Nominal Impedance ····· 8 Ω
Frequency Range ····· 30 Hz to 20 kHz
Sensitivity ····· 90 dB/W.m
Maximum Power ····· 100 W

Miscellaneous

Power Requirements ····· AC 220 V/230 V ~ 240 V (switchable), 50 Hz
Power Consumption ····· 580 W
AC outlets
Switched (x3) ····· Total 200 W MAX.
Dimensions ····· 797 (W) x 635 (D) x 1640 (H) mm
Weight ····· 146 kg
Operating temperature ····· +5°C to +35°C
Operating humidity ····· 5 % to 85 %

Audio output

Terminal ····· RCA pin-jack
EXT SP terminal ····· L,R x 1
Initialized time ····· 3 min. or less/CD player
Access time between playing ····· 15 sec. or less

Others

Number of CD discs ··· 54 CD discs (18 discs with standard plus additional 36 with option)
Number of CD players ····· One CD player (additional two CD players with option)
Remote control unit (wired) ····· Volume up/down, cancellation

Functions

- Song selection (up to 99 songs) ····· normal selection, cancellation of selection, best hit selection, album play
- Price per play
- Autoplay
- ID code
- Password
- Data output
- Income counter
- Selection memory clear

Accessories

- Magazine x 3
- Coin box x 1
- Remote control cord (30 m) x 1
- Charge storage cover x 1
- Stopper for the coin acceptance inlet x 1
- Menu number label x 1
- Rate seal x 1
- Bag for supplied components x 1
- Stiffening plate x 1
- Unlocking plate x 1
- Cord clamper x 2
- Screw A (M4 x 8) x 1
- Wooden screw x 4
- Washer x 2
- Operating instructions x 1
- Screw B (tapping; M3 x 6) x 1
- Coin sheet x 1

NOTE:
Specifications and design subject to possible modification without notice, due to improvements.

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